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MPsrch\_nn n.a. - n.a. database search, using Smith-Waterman algorithm

Run on: Tue Aug 26 07:50:42 1997; MasPar time 1767.32 Seconds  
Tabular output not generated.

Title: >US-08-292-694A-1  
Description: (1-1410) from US08292694A.seq  
Perfect Score: 1410  
N.A. Sequence: 1 CGCGTGGACGACTAGGTT.....AACCCAGATTACAACTGCAG 1410  
Comp: CGCGTGGACGACTAGGTT.....TTGGTCTAATGTTGACGTC

Scoring table: TABLE default  
Gap 6  
Nmatch STD : Dbase 0; Query 0  
Searched: 362067 seqs, 543138275 bases x 2  
Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database: emb1-new3  
1: BCT 2: FUN 3: GEN1 4: GEN2 5: HTG1 6: HTG2 7: HUM 8: INV  
9: ORG 10: MAM 11: VRT 12: PLN 13: PRO 14: ROD 15: SYN 16: UNC  
17: VIR  
genbank99  
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31: GEN3 32: HTG1 33: HTG2 34: HTG3 35: INV1 36: INV2 37: INV3  
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Matches 1410; Conservative		0;	Mismatches 0; Indels 0; Gaps 0;
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QY	2	GCACACCTTGCTATCCCAACAGCAGAGCTCTTCCAGTCTTGGAGGCACAAATTGA	60
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QY	61	GCATCAGGAACGTGGACCCATCAGGGCTGAACAGCTACTCAGGATCTAAAGTGTGACTT	120
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QY	121	GGAAGCTGACGTGACTTGGGAAGGAGGTGCGCAATCAGCGATCTGGAGCTCAGCGGC	180
Db	181	tcacatggatccccattcagatctccgagagatccaggccctacctcgtctccca	240
QY	181	TCACATGGAGTCCCCATTCCAGATCTCCGAGGAGATCCAGGCGCTACCTGCTCCCA	240
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QY	241	GTGCTTGCCTTCTCCCCAACAGCAGCTCTTGGTTCCTCCCACTGGGCGAGAAATCCGACAGTA	300
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QY	361	CTGTATCAACCGCTGTCTACTCTGTGTGTATTGTGTGTGTGTGTGTGTGTGTGTGTGT	420
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QY	421	TGTCATGTGTGTATCCGATCAGAGATCAGCAGCTGGAGTCGCGCGACATCTCTACATA	480
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QY	481	TTAACGTGTGTGAGATGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	540
Db	541	acttgatgaattcttggcccttttggagatgtgtgtgtgtgtgtgtgtgtgtgtgtgt	600
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QY	601	ACTACAACTGTTTACCAGCATTAATCCCTTGACATGATGTGTGTGTGTGTGTGTGTGTGT	660
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QY	661	CTGTGTGACCCCTGTGAAGCTTTTGACATCCGAACACACACACACACACACACACACAC	720
Db	721	acatctgcatcttggctcctggcctacatctgtgtgtgtgtgtgtgtgtgtgtgtgtgt	780
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Db	901	tctctatcatctgt	960
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QY	1141	GTATATACCAACAGCAGCAGCTGAATCTGTCTCTCTATGCTTCTGTGAATGAAACTTCAAGC	1200
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QY	1201	GGTGTTTTAGGACTTCTGTCTTCCCTTATTAGATGCGAATGGAGCGCGCAGACACCAATA	1260
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Db	1321	cagtatgactagtctgt	1380
QY	1321	CAGTATGACTAGTCTGT	1380
Db	1381	atcttggttttaaccagattcaactgcag	1410
QY	1381	ATCTGTGTTTAAACCCAGATTACAACTGCAG	1410
RESULT 2 S8:111 1288 bp mRNA ROD C2-AUG-1996			
LOCUS kappa-oploid receptor [alternatively spliced] [mice, C58/J, R1.1			
DEFINITION thymoma cells, mRNA Partial, 1288 nt].			
ACCESSION S81111			
NID g1478285			
KEYWORDS Mus sp. C58/J R1.1 thymoma cells.			
SOURCE Mus sp.			
ORGANISM Mus sp. C58/J R1.1 thymoma cells.			
REFERENCE 1 (bases 1 to 1288)			
AUTHORS Belkowski, S.M., Zhu, J., Liu, Chen, L.Y., Eisenstein, T.K., Adler, M.W.			
TITLE Sequence of kappa-oploid receptor cDNA in the R1.1 thymoma cell			
JOURNAL J. Neuroimmunol. 62 (1), 113-117 (1995)			
MEDLINE 96084989			
REMARK GenBank staff at the National Library of Medicine created this			
entry [NCBI g1478285] from the original journal article.			
COMMENT This sequence comes from Fig. 3.			
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BASE COUNT 283 a 336 c 305 g 364 t  
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Matches 1208; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 141 ctgctctccagtgcttctcccccacagcagctcttggttcccccacatgggcaga 200  
QY 230 CTGCTCTCCAGTGTTCCTTCTCCCGAACAGCAGCTCTTGGTTCCCGAACCTGGCGAGA 289  
Db 201 atccagacagcaatggcagtggtggtccagagatccagcagcagctggagtcgagcagatctc 260  
QY 290 ATCCGACAGTAATGGCAGTGTGGGCTCAGAGGATCAGAGCTGGAGTCCGCGCACATCTC 349  
Db 261 tccggccatccctgttatccacagctgtctactctgttctgttattgttgggtggttagt 320  
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Db 321 ggccaattctgtgctattgttgcacatccgatacacagagatgaagacccacacaa 380  
QY 410 GGGCAATTCCTGGTCATGTTGTCTATCATCCGATACAGAGATGAGACGCCACACCAA 469  
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QY 470 CATCTACATATTAACTGGCTTGGCAGATGCTTGGTTACTTACCATATGCCCTTTCA 529  
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QY 830 TGATGATGAATATCTGCTGGTGGATCTCTCTCAAGAGATCTGTGCTCTGTCTTTGCTT 889  
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QY 890 TGTGATCCAGTCCCTCATCATCATGTCTCTACACCTTGATGATCTCTCGCGCTGAAGAG 949  
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QY 950 TGTCCGGCTCCCTGTCTGGCTCCCGAGAGAGACCGAAATCTCCGCGCGCATCACCAAGCT 1009  
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QY 1010 GGTGCTGGTAGTAGTGCAGTCTTCATCATCTCTTGGACCCCATTCATCATCTTTATCCT 1069

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RESULT 3  
LOCUS RATRORD 1273 bp mRNA RCD 21-DEC-1993  
DEFINITION Rat mRNA for opioid receptor, complete cds.  
ACCESSION D16534  
NID 9409390  
KEYWORDS G-protein coupled receptor; opioid receptor; transmembrane protein.  
SOURCE Rattus norvegicus (strain Wistar) adult Brain cDNA to mRNA, clone pOR2.  
ORGANISM Rattus norvegicus  
Eukaryotae; Mitochondrial eukaryotes; Metazoa; Chordata;  
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;  
Murinae; Rattus  
1 (bases 1 to 1273)  
Nishi, M., Takeshima, H., Fukuda, K., Kato, S. and Mori, K.  
cDNA cloning and pharmacological characterization of an opioid  
receptor with high affinities for kappa-subtype-selective ligands  
FEBS Lett. 330, 77-80 (1993)  
93380575  
Submitted (19-JUN-1993) to DDBJ by: Hiroshi Takeshima  
International Institute  
for Advanced Studies  
c/o Shimadzu Corporation  
N-80  
1 Nishinokyo-Kuwahara-cho  
Kyoto 604  
Japan  
Phone: 075-823-1208  
Fax: 075-811-8186.  
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FEATURES  
source

CDS

BASE COUNT 278 a 340 c 294 g 361 t

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 Best Local Similarity 95.6%; Pred. No. 0.00e+00;  
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 QY 230 CTGCTCTCCAGTGTCTGCTTCTCCCAACAGCAGCTCTTGTTCCTCCCACTGGGCAGA 289  
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 Db 213 tccagccatccctgtttatccatccacgcgtgtctactctgtggtgttgggtggttagt 272  
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 QY 470 CATCTACATATTATACCTGGCTTTGGCAGATGCTTTGATACCTACCTATGCTCTTCA 529  
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 Db 813 tctccggtccctctcgtgctctcagagaaagaccgaataatcccgccgagatcccaagot 872  
 QY 950 TGTCCGCTCTCTGTGTGCTCCCGAGAGAGACGGAATCTCCGCGCATCACCAGCT 1009  
 Db 873 ggt 932  
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RESULT 4  
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 DEFINITION Rat kappa opioid receptor mRNA, complete cds.  
 ACCESSION L22001  
 NID 9409236  
 KEYWORDS kappa opioid receptor; opioid receptor.  
 SOURCE Rattus norvegicus whole brain cDNA to mRNA.  
 ORGANISM Rattus norvegicus  
 Eukaryotes; Mitochondrial eukaryotes; Metazoa; Chordata;  
 Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;  
 Murinae; Rattus.  
 REFERENCE 1 (bases 1 to 1358)  
 Chen Y., Mestek A., Liu J., and Yu L.  
 AUTHORS Molecular cloning of a rat kappa opioid receptor reveals sequence  
 TITLE Similarities to the mu and delta opioid receptors  
 JOURNAL Biochem. J. 295, 625-628 (1993)  
 MEDLINE 94059008  
 FEATURES Location/Qualifiers  
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 BASE COUNT 304 a 353 c 320 g 381 t  
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Query Match 80.4%; Score 1133; DB 90; Length 1358;  
 Best Local Similarity 95.6%; Pred. No. 0.00e+00;  
 Matches 1187; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

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 Db 115 ctgtgtcccaatgtgttgcctactccccaacagcagctcttgggtcccccactgggcccga 174  
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 QY 290 ATCCGACAGTAATGCGATGTGGGCTCAGAGGATCAGAGGATCAGAGCTGGAGTCCCGGCACATCTC 349  
 Db 235 tccagccatccctgtttatccatccacgcgtgtctactctgtgtgtgtgtgtgtgtgtgtgtgt 294  
 QY 350 TCCGCGCATCCCTGTTATCATCCCGCTGTCTACTCTGTGTGTATTGTGTGGCTTAGT 409



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QY 590 TTCCATTGACTACTCAACATGTTTACCAAGCATATTCCTTGACCATGATGAGTGGGA 649
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QY 650 CCGCTACATGCTGTGCGCCCGCTTGAAGCTTTGGACTTCCGAACACCTTTGAAGC 709
Db 747 AAGATCATCAACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 806
QY 710 AAGATCATCAACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 769
Db 807 CCGTACATGCGTGTGCGCCCGCTTGAAGCTTTGGACTTCCGAACACCTTTGAAGC 866
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6
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LOCUS Rattus norvegicus kappa opioid receptor mRNA, complete cds.
DEFINITION Rattus norvegicus kappa opioid receptor mRNA, complete cds.
ACCESSION U00442
NID 9403486
KEYWORDS Norway rat.
SOURCE Rattus norvegicus
ORGANISM Rattus norvegicus
Eukaryote; mitochondria eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 4742)
AUTHORS Meng, F., Xie, G.-X., Thompson, R.C., Mansour, A., Goldstein, A.,
Watson, S.J., and Akil, H.
TITLE Cloning and pharmacological characterization of a rat kappa opioid
receptor
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 90, 9954-9958 (1993)

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MEDLINE 94052210
REFERENCE 2 (bases 1 to 4742)
AUTHORS Meng, F.
TITLE Direct Submission
JOURNAL Submitted (05-AUG-1993) Fan Meng, Mental Health Research Institute,
University of Michigan, 205 Zina Pitcher Place, Ann Arbor, Michigan
48109, USA
FEATURES
Location/Qualifiers
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LOCUS		2481 bp mRNA	ROD
DEFINITION		Rattus norvegicus mRNA for kappa opioid receptor, complete cds.	
ACCESSION		D16829	
KEYWORDS		kappa opioid receptor.	
SOURCE		Rattus norvegicus	cdna to mRNA.
ORGANISM		Rattus norvegicus	
REFERENCE			
AUTHORS		Mirami,M., Toya,T., Katayama,Y., Nakamura,S., Ozogi,T., Kaneko,S. and Satoh,M.	
TITLE		Cloning and expression of a cDNA for the rat kappa-opioid receptor	
JOURNAL		FEBS Letters 329, 291-295 (1993)	
MEDLINE		93374033	
COMMENT		Submitted (21-JUL-1993) to DDBJ by: Masabumi Minami Department of Pharmacology Faculty of Pharmaceutical Sciences Kyoto University Kyoto, Kyoto 606-01 Japan	

Fax: 075-753-4586.		
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DEFINITION		complete cds.				
ACCESSION		L37362				
NID		g722617				
KEYWORDS		OPRk1 gene; kappa opioid receptor; opioid receptor.				
SOURCE		Homo sapiens (clone d2-115) (tissue library: genomic in lambda dash and cDNA in lambda ZAPII) fetus brain cDNA to mRNA.				
ORGANISM		Homo sapiens				
		Eukaryotes; mitochondrial eukaryotes; Metazoa; Chordata;				
REFERENCE		Vertebrata; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
AUTHORS		Zhu,J., Chen,C., Xue,J.-C., Kunapuli,S., Deriel,J.K. and Liu-Chen,J.-Y.				
TITLE		Cloning of a human kappa opioid receptor from the brain				
JOURNAL		Life Sci. 56, 201-207 (1995)				
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RESULT	10	CPU04C92	1733 bp	TEENA	ROD	24-MAY-1995
LOCUS						

DEFINITION Cavia porcellus Hartley kappa opioid receptor mRNA, complete cds.  
 ACCESSION U04092  
 NID 9476106  
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 REFERENCE 1. (bases 1 to 1733)  
 AUTHORS Xie, G.X., Meng, F., Mansour, A., Thompson, R.C., Hovest, M.T., Goldstein, A., Watson, S.J. and Akil, H.  
 TITLE Primary structure and functional expression of a guinea pig kappa opioid (dynorphin) receptor  
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 91 (9), 3779-3783 (1994)  
 MEDLINE 94224825  
 REFERENCE 2. (bases 1 to 1733)  
 AUTHORS Xie, G.  
 TITLE Direct Submission  
 JOURNAL Submitted (07-DEC-1993) Guo-xi Xie, Mental Health Research Institute, The University of Michigan, 205 Zina Pitcher Place, Ann Arbor, MI 48109-0720, USA  
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 REFERENCE 1. (bases 1 to 1154)  
 AUTHORS Simonin, F., Gaveriaux-Ruff, C., Befort, K., Matthes, H., Lannes, B.,

	TITLE	Micheletti,G., Mattei,M.G., Charron,G., Bloch,B. and Kieffer,B. Kappa-Opioid receptor in humans: cDNA and genomic cloning, chromosomal assignment, functional expression, pharmacology, and expression pattern in the central nervous system Proc. Natl. Acad. Sci. U.S.A. 92 (15), 7006-7010 (1995) 9350200
	JOURNAL MEDLINE	2 {bases 1 to 1154}
	REFERENCE	Mansson,E., Bare,L. and Yang,D.
	AUTHORS	Isolation of a Human kappa opioid receptor cDNA from placenta Biochem. Biophys. Res. Commun. 202 (3), 1431-1437 (1994)
	JOURNAL	9438360
	MEDLINE	3 {bases 1 to 1154}
	REFERENCE	Kieffer,B.
	AUTHORS	Direct Submission
	TITLE	Submitted (18-NOV-1994) Brigitte Kieffer, Ecole Supérieure De Biotechnologie De Strasbourg, Boulevard Sebastien Brandt, Illkirch,
	JOURNAL	57400, France
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 Murinae; Mus.  
 - (bases 1 to 488)  
 Nishi.M., Takeshima,H., Mori.M., Nakagawara,K. and Takeuchi,T.  
 JNCE  
 HORS

TITLE Structure and chromosomal mapping of genes for the mouse  
kappa-opioid receptor and an opioid receptor homologue (MOR-C)  
JOURNAL Biochem. Biophys. Res. Commun. 205 (2), 1353-1357 (1994)  
MEDLINE 95100967  
COMMENT Submitted (28-May-1994) to DBJ by:

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## FEATURES

## SOURCE

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